

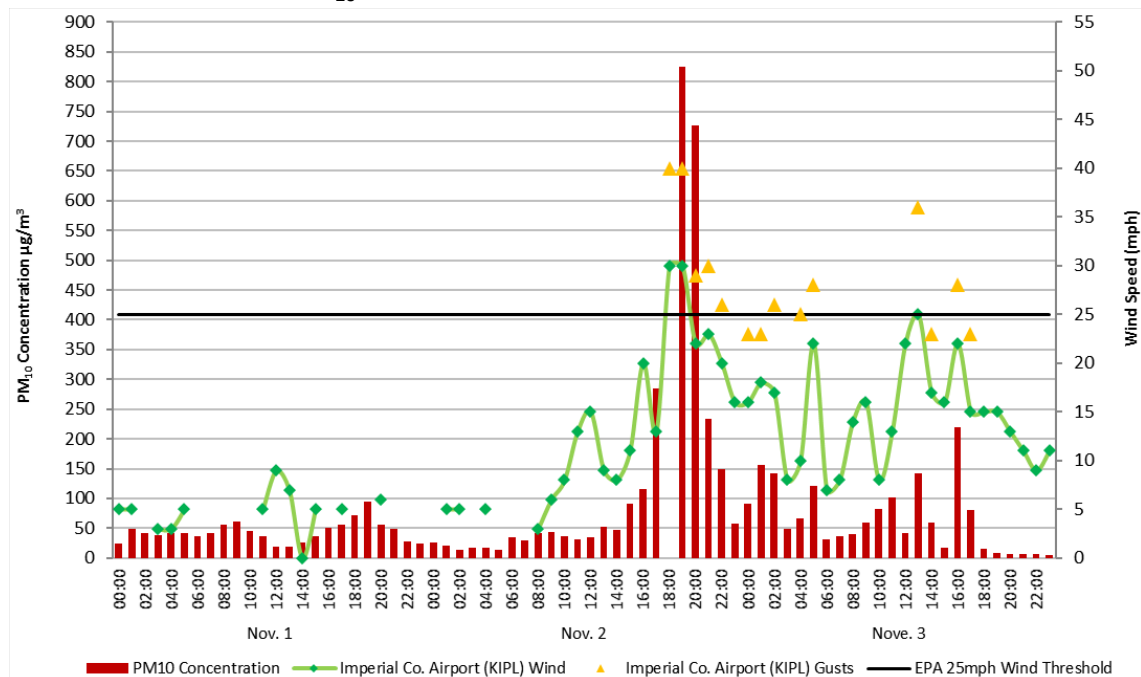
## Appendix C

### Correlated PM<sub>10</sub> Concentrations and Winds

The following graphs illustrate the direct correlation between wind speeds<sup>1</sup> and PM<sub>10</sub> concentrations at select monitoring sites within the Salton Sea Air Basin on November 2, 2015. Note a variety of instruments measure wind speed at different times during any given hour. Therefore, the following graphs reflect the hour of the wind measurement.

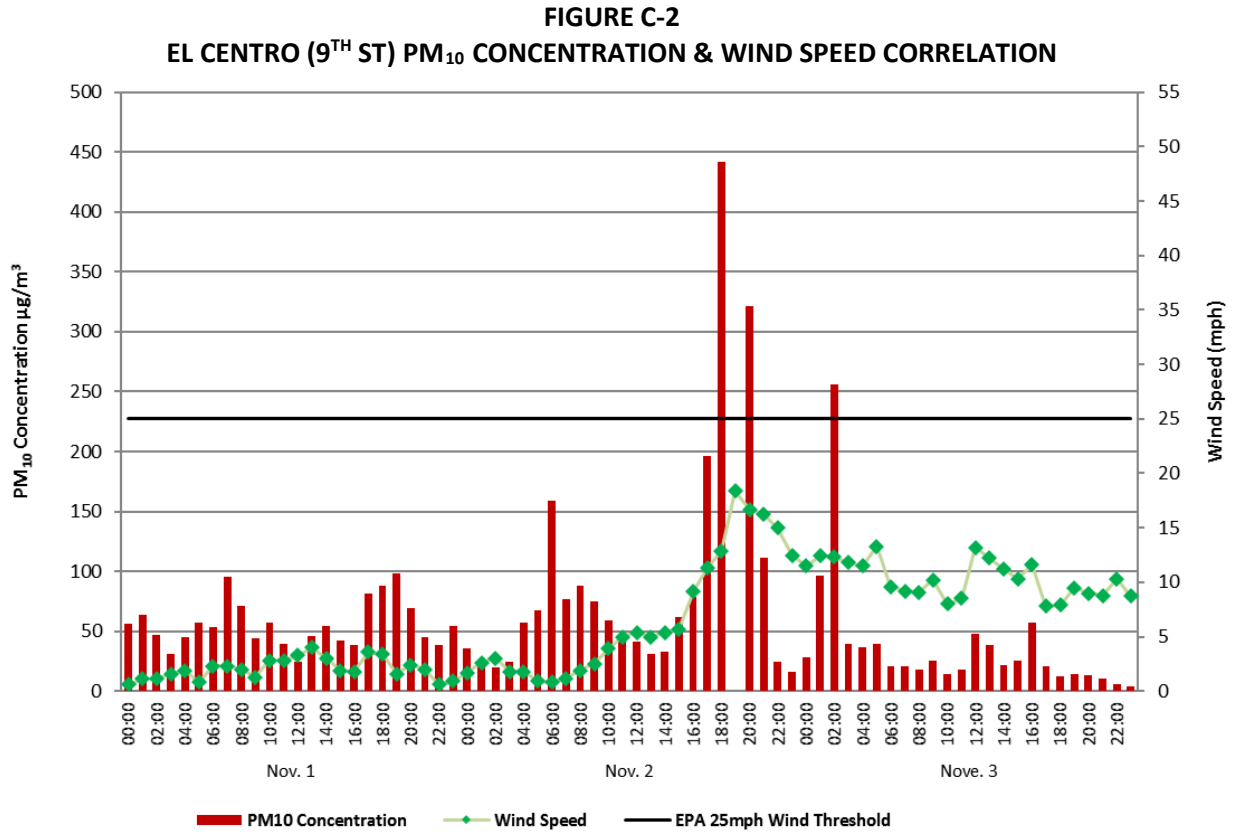
#### IMPERIAL COUNTY SELECT SITES (FIGURES C-1 to C-4)

**FIGURE C-1**  
**BRAWLEY PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**

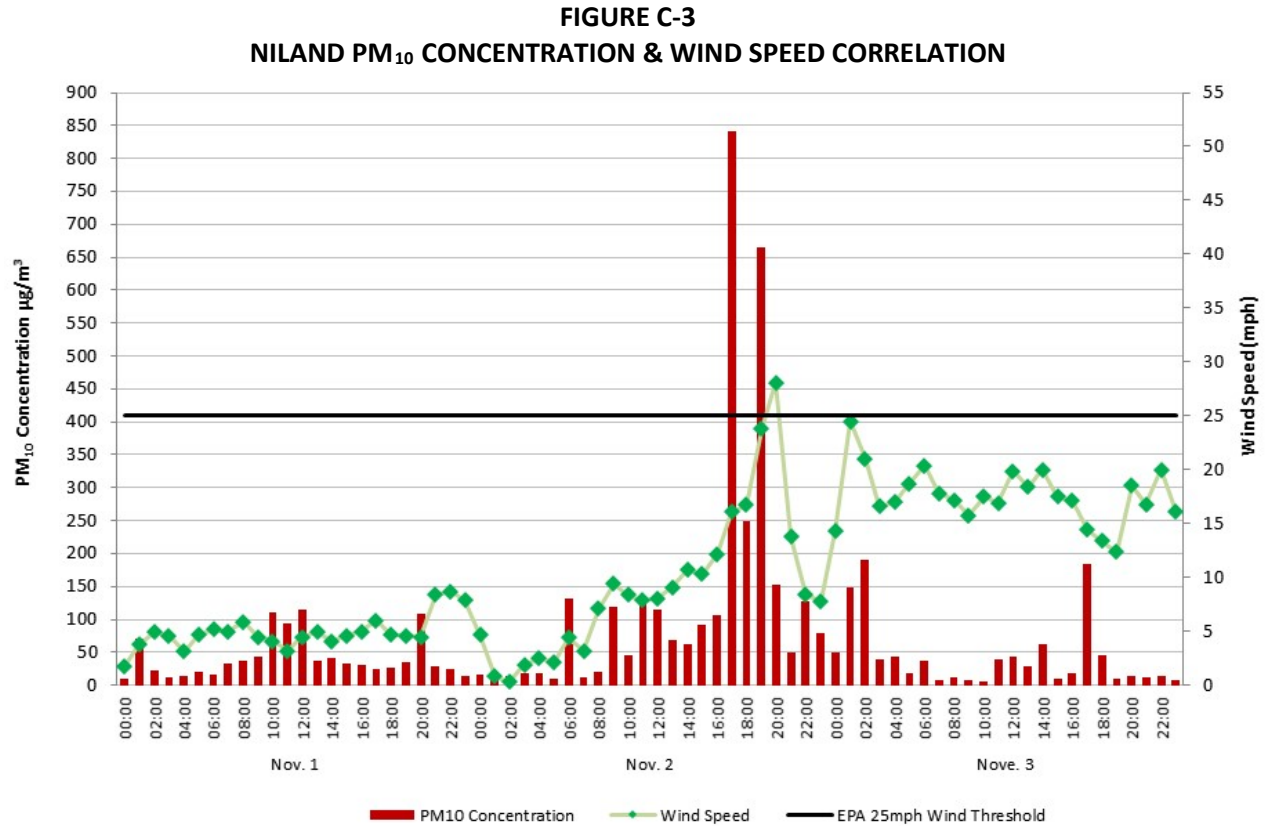


**Fig C-1:** Brawley station does not measure wind data, therefore, Imperial County Airport From the NCEI's QCLCD system was used

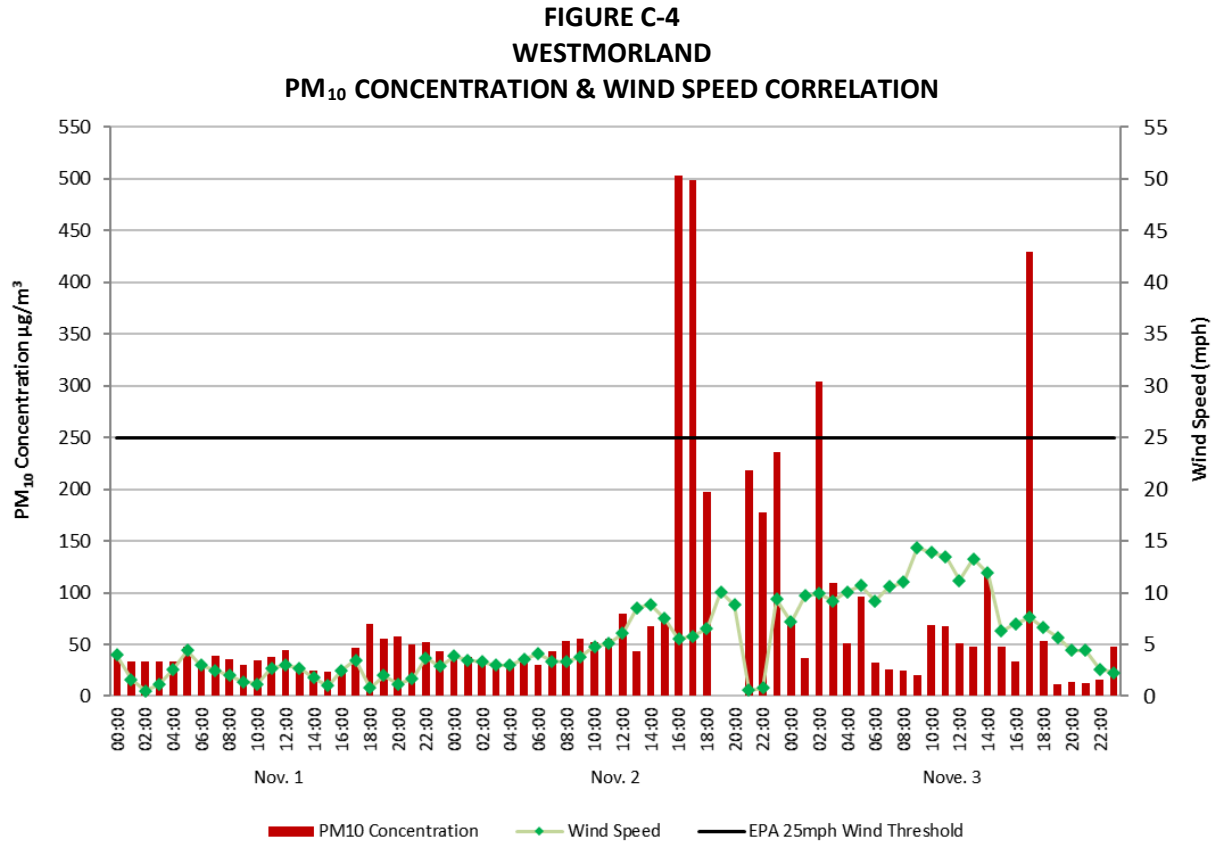
<sup>1</sup> National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); <https://w1.weather.gov/glossary/index.php?letter=w>



**Fig C-2:** The El Centro FEM monitor showed a spiked as a result of high winds transporting dust to the station, but it did not exceed. Wind data from the EPA's AQS system



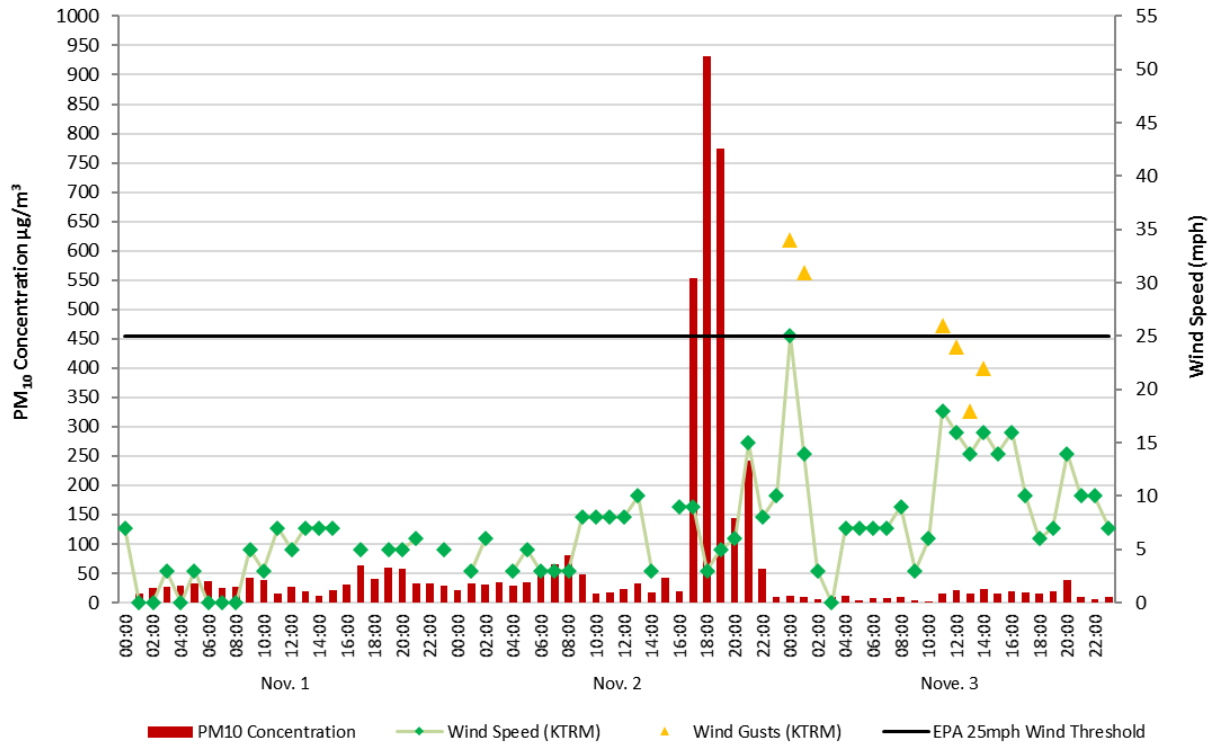
**Fig C-3:** Niland (English Rd) recorded increased levels of PM<sub>10</sub> as winds speeds increased during the late afternoon on November 2, 2015. Wind data from the EPA's AQS system



**Fig C-4:** Winds at Westmorland did not reach 25 mph, but the lower wind speeds at the station allowed transported dust to be deposited on the monitor. Wind data from the EPA's AQS data bank

## EASTERN RIVERSIDE COUNTY SITES

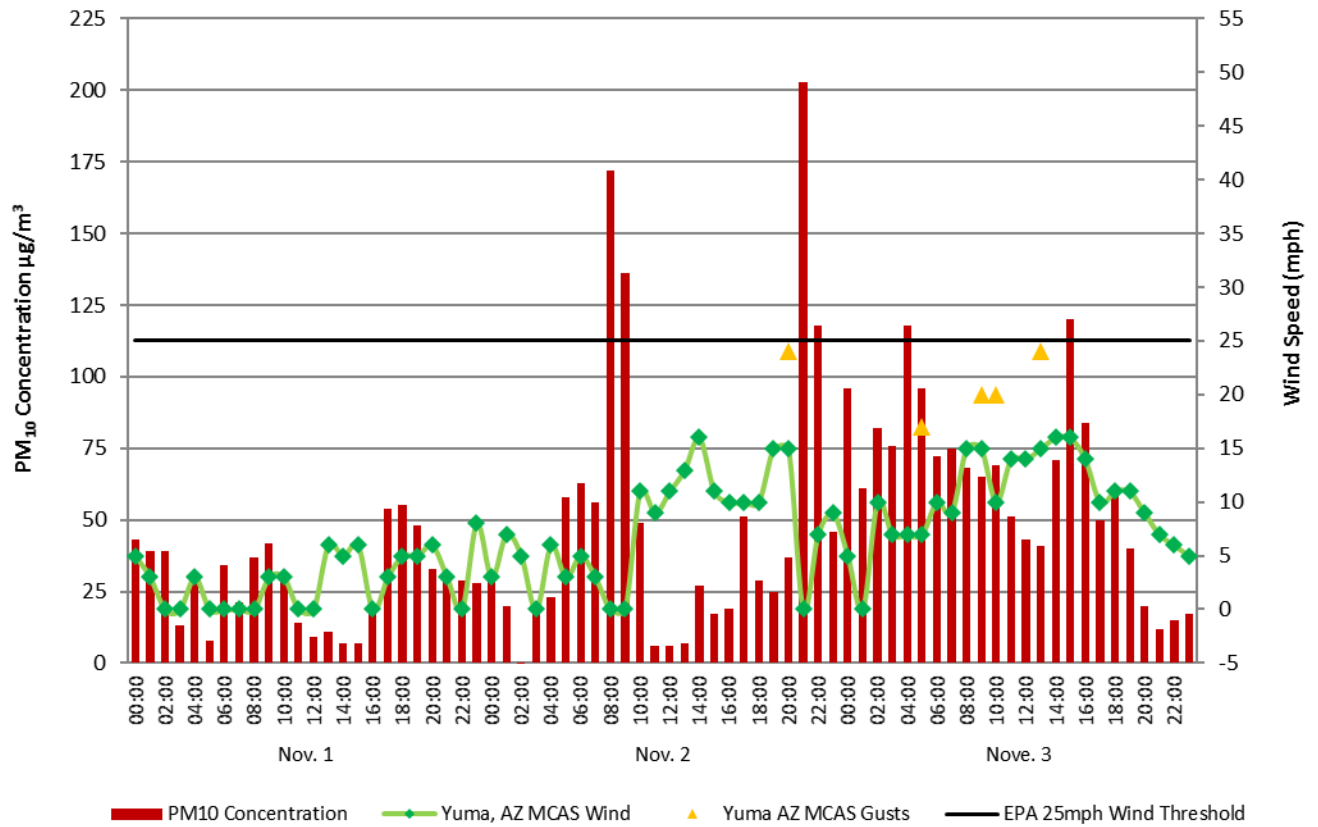
**FIGURE C-5**  
**INDIO (JACKSON ST)**  
**PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION**



**Fig C-5:** Wind data is from Jacqueline Cochran Regional Airport (KTRM) from the NCEI's QCLCD system. Palm Springs Fire Station and Torres-Martinez did not record during this period

## SOUTHWESTERN ARIZONA

FIGURE C-6

YUMA, ARIZONA SUPERSITE PM<sub>10</sub> CONCENTRATION & WIND SPEED CORRELATION

**Fig C-6:** Yuma monitoring site in Yuma, Arizona, is downstream of Westmorland in the extreme southwestern corner of Arizona. Wind data is from the NCEI's QCLCD system